CATHRIN R

Software Developer

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SUMMARY

I'm driven by a passion for coding and problem-solving. I'm excited to join a team where I can grow, innovate, and make a real impact. With a strong foundation in programming, I'm eager to learn and contribute to a dynamic organization. I'm looking for a collaborative environment that fosters creativity and growth

EDUCATION

B.E Computer Science and Engineering
Sri Krishna College of Technology
📅 09/2023 - Present 📍 Coimbatore, TN
CGPA **8.5** / 10

Higher Secondary Certificate
Sacred Heart Girls Hr Sec School
📅 06/2021 - 05/2022 📍 Thanjavur, TN
Percentage **94** / 100

Secondary School Certificate
Sacred Heart Girls Hr Sec School
📅 06/2019 - 05/2020 📍 Thanjavur, TN
Percentage **88.6** / 100

INTERNSHIPS

Junior Web Developer
Nanlogical Consultancy Services Pvt Ltd
📅 07/2024 - 09/2024 📍 Chennai, India

Junior Web Developer
Nanlogical Consultancy Services Pvt Ltd
📅 05/2025 - 06/2025 📍 Chennai, India

CERTIFICATIONS

Python Essentials 1 & 2
Cisco Networkin Academy

NPTEL - Mobile Virtual Reality and Artificial Intelligence
Elite + Silver certification

NPTEL - Cloud Computing
Elite + Silver certification

NPTEL - Effective Writing
Elite + Silver certification

Infosys springboard - Java Programming
Certification in Java Programming from Infosys SpringBoard

Infosys springboard - REACT
Certification in REACT from Infosys SpringBoard

Infosys springboard - Data Structures and Algorithms
Certification in Data Structures and Algorithm from Infosys SpringBoard

COURSERA - Java Programming: Solving Problems with Software
Course on solving problems with software using Java programming

COURSERA - Introduction to Generative AI and AWS Cloud Technical Essentials
Course covering AWS cloud technical essentials

COURSERA - Data Science Methodology
Course on Data Science Methodology

SKILLS

Python ML Engineering Java

C/C++ React REST

Data Structures AWS Cloud Agile

Object-Oriented Design SpringBoot

Spring Data JPA

FIND ME ONLINE

GitHub
https://github.com/cathrin-11

LinkedIn
https://www.linkedin.com/in/cathrin-r-10b9002a2/

leetcode
https://leetcode.com/u/Cathrin_1103/

Portfolio
https://cathrin-portfolio.netlify.app

PROJECTS

AI-Based Sign Language Detection
Built an **AI-powered Sign Language Recognition system** using **Tensor Flow, CNN, OpenCV, and Media Pipe** to recognize hand signs from live webcam input. Trained the model on the **Sign MNIST dataset** and achieved high accuracy. Enabled real-time translation of hand gestures into alphabet characters.

Gesture-Driven Drone Simulator
Created a gesture-controlled drone simulator with Python, OpenCV, and Media Pipe. Enabled real-time hand gestures for actions like landing and hovering in 3D. Showcased control, simulation, and visualization.

Emotion Detection App
Built a real-time facial emotion detection app using Deep Learning & Computer Vision. Detected emotions (happy, sad, angry, neutral) via webcam with CNN models, highlighting expertise in facial analysis & affective computing.

Air Canvas
Created AI-based Air Canvas with OpenCV, Media Pipe for drawing via hand gestures on webcam. Implemented finger-tracking, color selection, erasing, no physical device needed. Enabled real-time gesture recognition, human-computer interaction.

CERTIFICATIONS

COURSERA - Fundamentals of Java Programming

Course covering fundamentals of Java programming

COURSERA - Agile Project Management

Course in Agile Project Management

COURSERA - Object Oriented Design

Course on object-oriented design

COURSERA - Computer Networks and Network Security

Course in Computer Networks and Network Security

PROJECTS

Digital Coupon Platform

Developed a RESTful API using Spring Boot and Spring Data JPA with CRUD operations, pagination, sorting, and custom queries; implemented AOP-based logging and dependency injection for scalable application design.

Vehicle Service Booking Portal

- Built a service platform with React
- Integrated listings, booking, and authentication
- Enabled real-time order tracking for better user experience